OCR Computer Science A Level

1.1.2 Types of Processor

Flashcards

What does RISC mean?

What does RISC mean?

Reduced Instruction Set Computer

What does CISC mean?

What does CISC mean?

Complex Instruction Set Computer

What are the properties of RISC?

What are the properties of RISC?

- Small instruction set

- Each instruction is one line of machine code

- Used in everyday devices

What are the properties of CISC?

What are the properties of CISC?

- A large instruction set

- Instructions are built into hardware

- Used in embedded systems and microprocessors

What are the benefits of RISC processors?

What are the benefits of RISC processors?

Pipelining is possible since each instruction takes one clock cycle.

What are the benefits of CISC processors?

What are the benefits of CISC processors?

- Compilers have to do less work,

- They require less RAM since instructions are smaller

What is a graphics processing unit?

What is a graphics processing unit?

A co-processor made up of lots of independent parallel processors.

What are GPUs used for now?

What are GPUs used for now?

GPUs are used for image processing and machine learning.

What are multi-core systems?

What are multi-core systems?

Systems where there are multiple cores that separate fetch-execute cycles.

What are parallel systems?

Systems where multiple instructions can be completed at any given time, doesn't require multiple cores, it can use threading and pipelining instead.